

## APPENDIX 14. 10A - ENERGY EFFICIENCY

This Energy Efficiency Plan (EEP) outlines the measures in place at Holcombe Brook Farm to ensure energy use is managed effectively, consistent with the requirements of the Industrial Emissions Directive (IED) and the Environment Agency's guidance on Best Available Techniques (BAT). The farm houses approximately 60,000-layer hens across three poultry houses, operating under intensive conditions.

The Holcombe Family Farms are committed to the efficient use of energy. We installed a Wind Turbine at the Holcombe Manor Farm, in 2010 and have installed solar panels to the roofs of the poultry sheds.

At the new farm in Martock, we will implement a combination of measures to reduce consumption and embrace renewable energy sources. This will include good insulation, smart ventilation optimisation, and the integration of solar panels or other renewable energy solutions.

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SPECIFIC STRATEGIES FOR IMPROVING ENERGY EFFICIENCY AT HOLCOMBE BROOK FARM

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INSULATION:

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All poultry houses will be insulated to BAT standards using glass fibre insulation.

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VENTILATION OPTIMISATION:

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The poultry houses will be fitted with smart highly customised ventilation systems designed to manage the internal housing environment efficiently and to provide the best conditions for the flock. Optimal performance will minimise any environmentally undesirable emissions.

The use of variable speed fans will reduce start up load.

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LIGHTING MANAGEMENT:

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Lighting systems need to centre around the welfare needs of the flock. Lighting systems will feature reduced intensity where possible. Fixtures will be energy-efficient, with dimmers.

Non-flock areas will include motion sensor lighting to minimise energy usage.

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#### FEED SYSTEMS AND EGG COLLECTION

- Feed Systems, use Auger-driven conveyors which are serviced regularly to reduce load.
- Egg collection use belt driven systems operated by low friction efficient motors.

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#### RENEWABLE ENERGY INTEGRATION:

The farm buildings will be fitted with solar panels

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#### MAINTENANCE OF PLANT, MACHINERY AND BUILDINGS

Routine maintenance of Buildings and Machinery will ensure that the farm operates in an energy efficient manner. All electrical equipment is tested annually by qualified engineers.

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#### TRAINING

- All relevant staff are trained in:
  - Operating equipment efficiently
  - Reporting faults that could lead to energy wastage
  - Adjusting systems for seasonal efficiency (e.g. ventilation rates)